

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 18 February 2014

FMDV type O

Country: Russian Federation

Period: 2014

No. of sequences: 1 (VP1)

Originator: ██████████ Federal Centre for Animal
Health (FGI ARRIAH), Yur'evets, Vladimir, 600900, Russia,
600900 Yur'evets.



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Serotype: O WRLFMD Ref No: Zabaikalsky/RUS/2014* Batch No: WRLMEG/2014/00003 Sender Ref: O/Zabaikalsky/RUS/2014 Location: Starotsuruhaitui, Priargunsky, Zabaikalsky krai, Russia Date collected: 09/02/2013 Date received by WRLFMD: 18/02/2014 Date received for sequencing: n/a Species: Cattle Material used: epithelium Region sequenced: VP1 RT-PCR primers: Not known	Report date: 18/02/2014 Reported by: N.J. Knowles Checked by: B. Valdazo-Gonzalez Topotype: ME-SA Genotype/strain: PanAsia Sequence filename: RUS14-AB.SEQ Date sequence last updated: 18/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3765 Min. no. of nt for comparison: 600 Total turn-around time: 0 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/13/2013	VIT13-13	639	631	0	98.75	1.25	ME-SA	PanAsia
2	O/VIT/15/2013	VIT13-15	639	631	0	98.75	1.25	ME-SA	PanAsia
3	O/VIT/32/2013	VIT13-32	639	630	0	98.59	1.41	ME-SA	PanAsia
4	O/VIT/33/2013	VIT13-33	639	630	0	98.59	1.41	ME-SA	PanAsia
5	O/VIT/40/2013	VIT13-40	639	630	0	98.59	1.41	ME-SA	PanAsia
6	O/VIT/46/2013	VIT13-46	639	630	0	98.59	1.41	ME-SA	PanAsia
7	O/VIT/47/2013	VIT13-47	639	630	0	98.59	1.41	ME-SA	PanAsia
8	O/VIT/51/2013	VIT13-51	639	630	0	98.59	1.41	ME-SA	PanAsia
9	O/VIT/11/2013	VIT13-11	639	629	0	98.44	1.56	ME-SA	PanAsia
10	O/VIT/12/2013	VIT13-12	639	629	0	98.44	1.56	ME-SA	PanAsia
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UKG/35/2001 (AJ539141)	UKG01-35	639	588	0	92.02	7.98	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	580	0	90.77	9.23	ME-SA	Ind-2001a
3	O/IRN/8/2005	IRN05-08	639	576	0	90.14	9.86	ME-SA	PanAsia-2
4	O/BHU/3/2009	BHU09-03	639	575	0	89.98	10.02	ME-SA	Ind-2001d
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
6	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
7	O/BHU/1/2013	BHU13-01	639	572	0	89.51	10.49	ME-SA	Ind-2001 ^{KAR-13}
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
9	O/IRN/31/2009	IRN09-31	639	570	0	89.20	10.80	ME-SA	PanAsia-2 ^{FAR-09}
10	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in the Russian Federation in 2014

Batch: WRLMEG/2014/00003

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

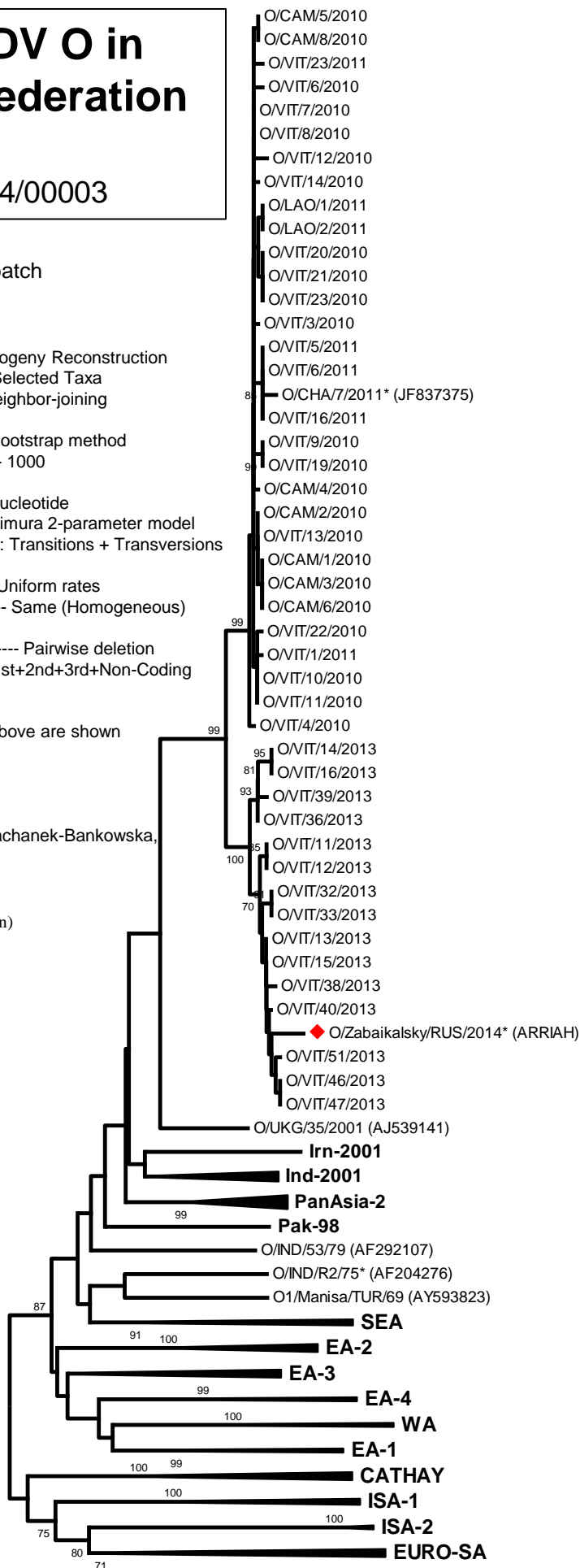
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
18 February 2014

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PanAsia

ME-SA

ME-SA

0.02